

Application/Control Number: 09/509,377
Art Unit: 3739

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Substitute claims

I claim:

1. An endoscope, comprising an invaginator of a thin-walled tube, which is compactly placed on the distal part of an endoscopic tube in the shape of small layers and/or pleats.
- 5 2. The endoscope according to claim 1, wherein the said invaginator is formed in a hollow cylinder having a gap with the distal part of the endoscopic tube.
3. The endoscope according to claim 2, wherein said gap is keeping under the working pressure in a cavity of invaginator.
4. The endoscope according to any of claims 1 to 3, further comprising a distal seal of the endoscopic tube.
- 10 5. The endoscope according to any of claims 1 to 3, further comprising a shell of invaginator for insertion in rectum.
6. The endoscope according to any of claims 1 to 3, further comprising a preservative of the distal part of endoscopic tube.
- 15 7. An endoscope, comprising a disposable cartridge for the invagination of endoscopic tube, which has:
 - an invaginator of a thin-walled tube, formed in the shape of small layers and/or pleats in a hollow cylinder having a gap with the distal part of endoscopic tube,
 - a distal seal of endoscopic tube,
 - a shell of invaginator for insertion in rectum,
 - a preservative of the distal part of endoscopic tube.
- 20 8. The endoscope according to claim 7, wherein said invaginator keeps said gap under the working pressure in the cavity of invaginator.
9. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a proximal seal of the endoscopic tube.
- 25 10. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a spring of invaginator.
11. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a tip of the endoscopic tube.
12. The endoscope according to claim 11, wherein said tip comprises a protective glass.
13. The endoscope according to claim 12, wherein said tip comprises a channel in the cavity of intestines.
- 30 14. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an anal dilator.
15. The endoscope according to claim 14, wherein said anal dilator comprises a channel in the cavity of intestines.
16. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an endoscopic tube with a distal drives of traction lines, bending its distal end, made in the shape of cylinder/piston units.
- 35 17. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an endoscopic tube with a distal drives of traction lines, bending its distal end, made in the shape of siphon.
18. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a biopsy forceps in the shape of a flexible hermetic tube, on the distal end of said tube a piston of biopsy channel is placed.
19. The endoscope according to claim 18, further comprising a distal drive of cutters.
- 40 20. An endoscope comprising a mechanism for insertion of endoscopic tube in the shape of cylinder/piston unit.